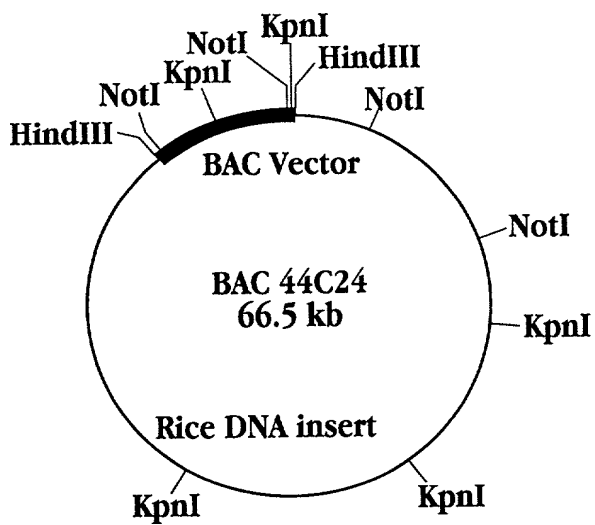
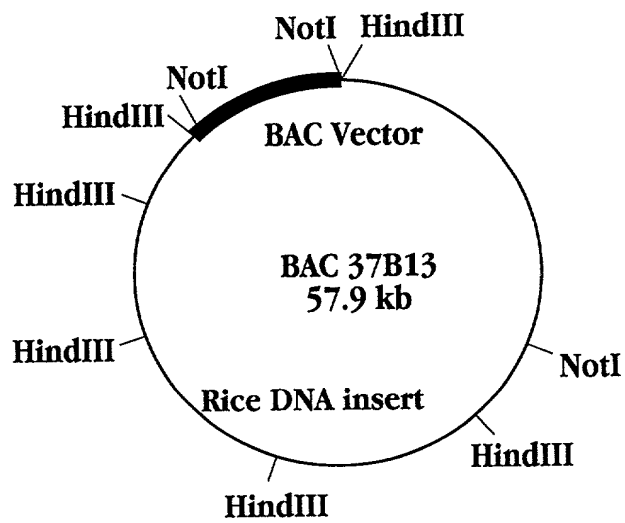


**Fig. 1C**

**Fig. 3A**



**Fig. 3B**

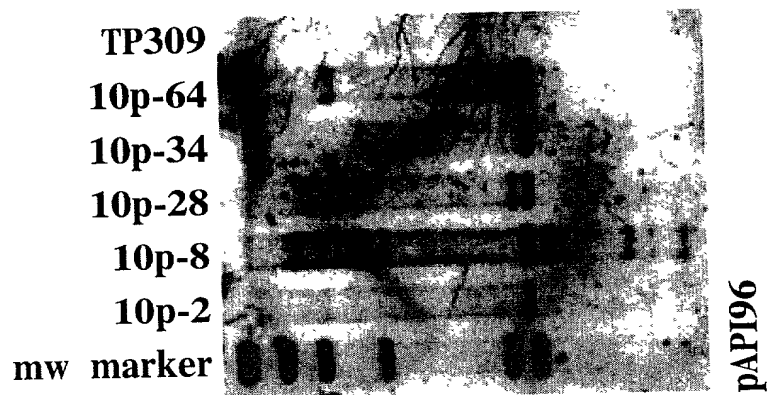


Fig. 2C

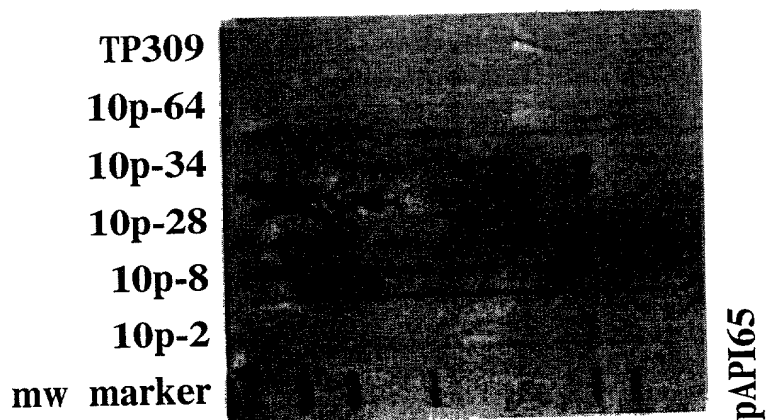


Fig. 2B

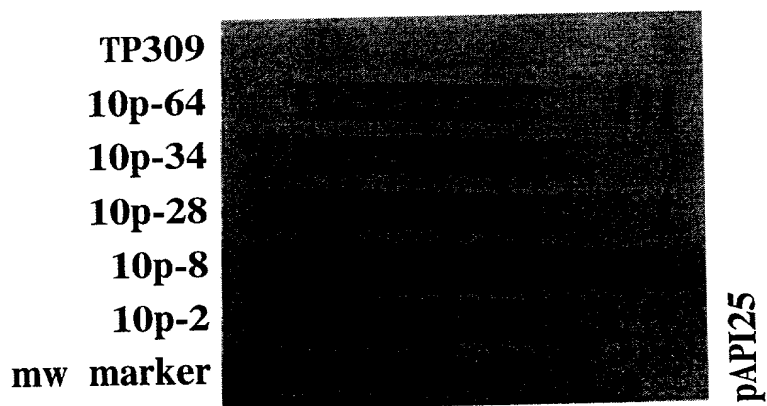


Fig. 2A

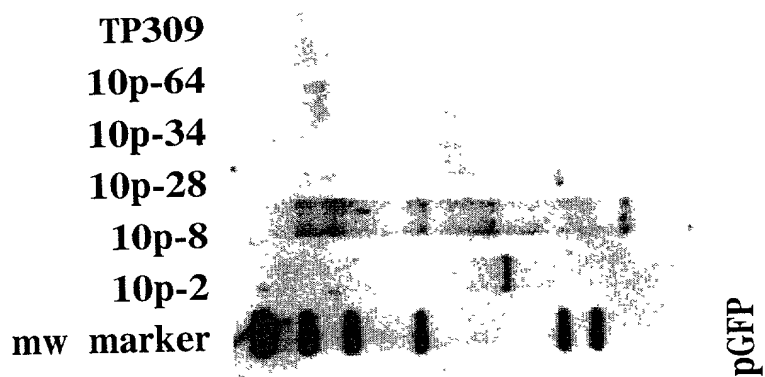


Fig. 2F

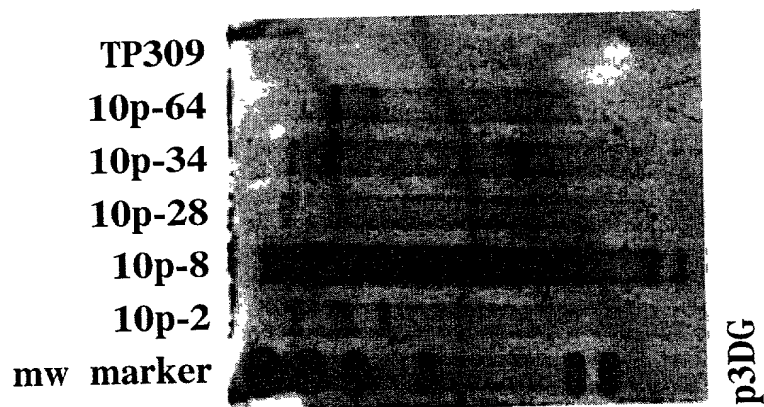


Fig. 2E

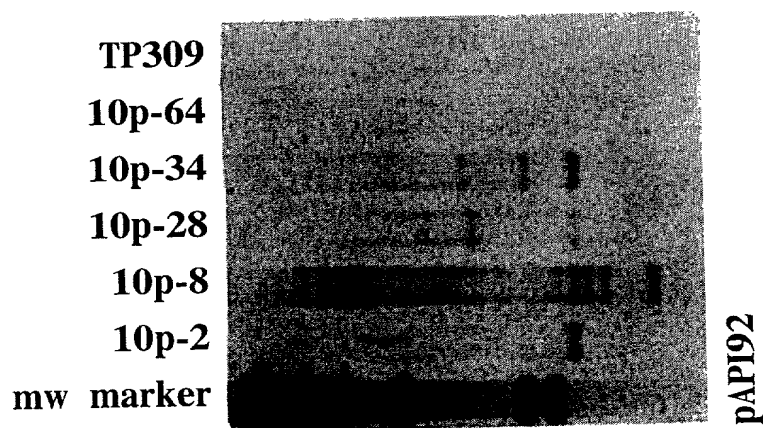


Fig. 2D

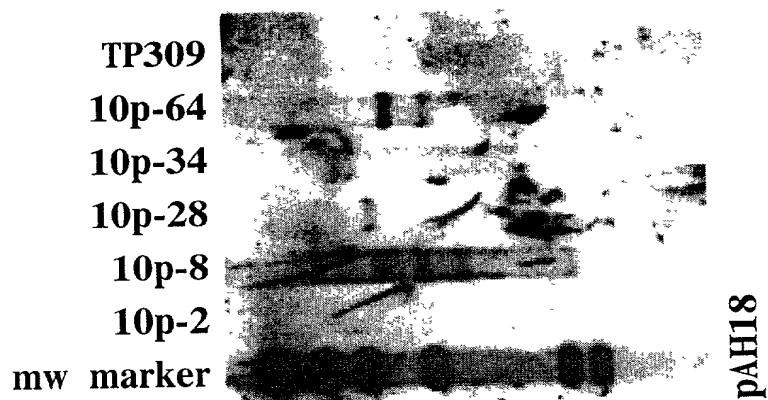


Fig. 2I

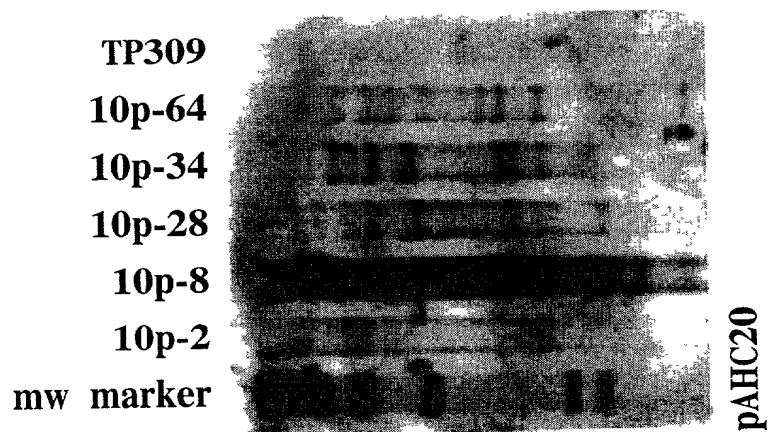


Fig. 2H

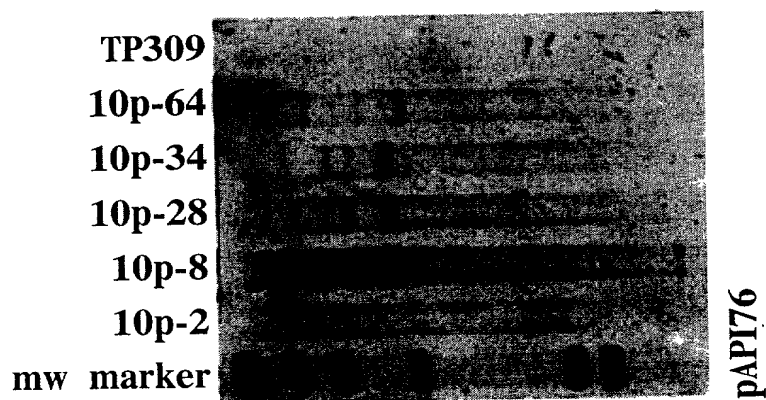


Fig. 2G

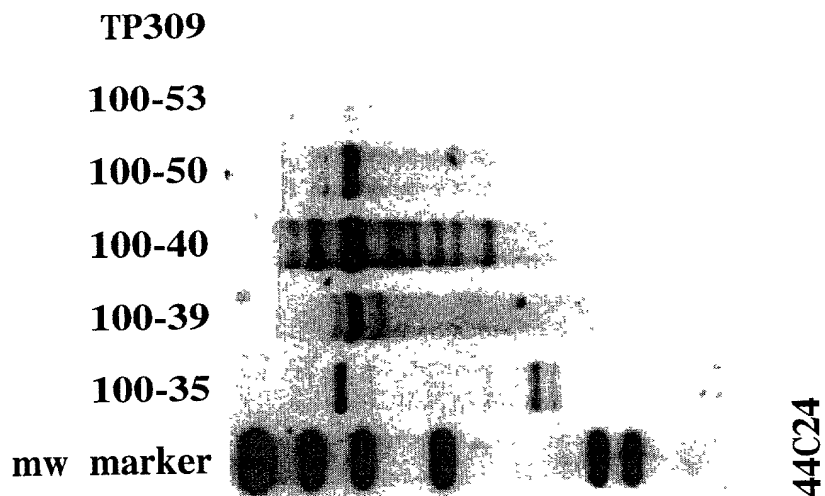


Fig. 4B

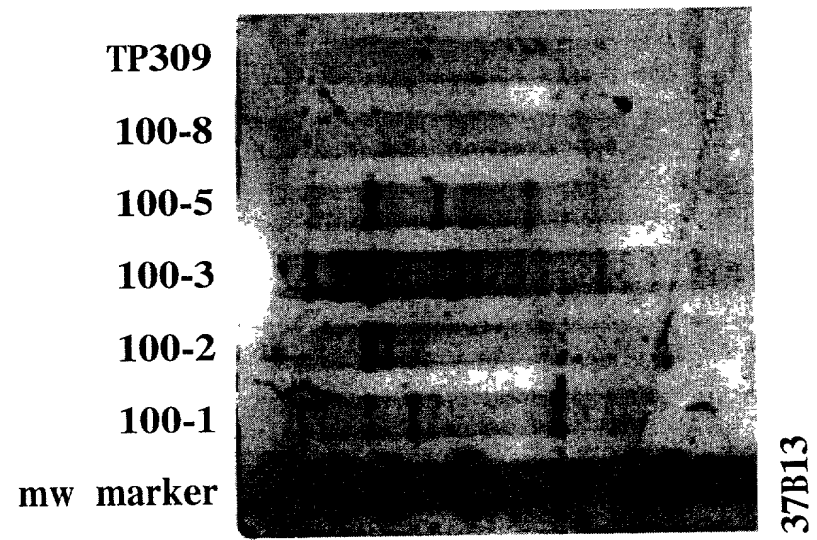


Fig. 4A

10 20 30 40 50 60 70  
 CACCTAAATTGTAAGCGTTAATATTTTGTAAAATTCGCGTTAAATTTTGTAAATCAGCTCATTTTTT  
 GTGGATTTAACATTTCGCAATTATAAAACAATTTTAAGCGCAATTTAAAAACAATTTAGTCGAGTAAAAAA  
 80 90 100 110 120 130 140  
 AACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTG  
 TTGGTTATCCGGCTTTAGCCGTTTTAGGGAATATTTAGTTTTCTTATCTGGCTCTATCCCAACTCACAAC  
 150 160 170 180 190 200 210  
 TTCCAGTTTGGAAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAACCGTCTA  
 AAGGTCAAACCTTGTTCTCAGGTGATAATTTCTTGACCTGAGGTTGCAGTTTCCCGCTTTTGGCAGAT  
 220 230 240 250 260 270 280  
 TCAGGGCGATGGCCCACTACGTGAACCATCACCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCA  
 AGTCCCGCTACCGGGTGATGCACTGGTAGTGGGATTAGTTCAAAAAACCCAGCTCCACGGCATTTCGT  
 290 300 310 320 330 340 350  
 CTAAATCGGAACCCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAA  
 GATTTAGCCTTGGAATTTCCCTCGGGGGCTAAATCTCGAACTGCCCTTTCGGCCGCTTGACACCGCTCTT  
 360 370 380 390 400 410 420  
 AGGAAGGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTCACGCTGCGCGTAAC  
 TCCTTCCCTTCTTTCGCTTTCTCGCCGCGATCCCGCGACCGTTTACATCGCCAGTGCGACGCGCATTG  
 430 440 450 460 470 480 490  
 CACCACACCCGCCGCGCTTAATGCGCCGCTACAGGGCGCGTCCCATTTCGCCATTACAGGCTGCGCAACTGT  
 GTGGTGTGGGCGGCGCAATTACGCGGCGATGTCCCGCGCAGGGTAAGCGGTAAGTCCGACGCGTTGACA  
 500 510 520 530 540 550 560  
 TGGGAAGGGCGATCGGTGCGGGCTCTTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGC  
 ACCCTTCCCGCTAGCCACGCCCCGAGAAGCGATAATGCGGTGACCGCTTTCCCCCTACACGACGTTCCG  
 570 580 590 600 610 620 630  
 GATTAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTAAAACGACGGCCAGTGAATTGTAATA  
 CTAATTCAACCCATTGCGGTCCCAAAGGGTCAGTGCTGCAACATTTTGCTGCCGGTCACTTAACATTAT  
 >\_Gns9\_Promoter  
 640 650 660 670 680 690 700  
 CGACTCACTATAGGGCGAATTGGAGCTCAACTTTAGTCCATATATTTAGACACTAATTTAGAGTATTTAAA  
 GCTGAGTGATATCCCGCTTAACCTCGAGTTGAAATCAGGTATATAAATCTGTGATTAAATCTCATAATTT  
 710 720 730 740 750 760 770  
 TATAAATTACTTACAAACTAATTCAATAAATGAAAGCTAATTTGCGAGACAAATTTTTTATGTTTAATT  
 ATATTTAATGAATGTTTTGATTAAGTTATTTACTTTCGATTAAACGCTCTGTTTAAAAAATACAAATTAA

FIG. 5A

780 790 800 810 820 830 840  
AATCCATAATTAGAGAATGTTTACTGTAGCATCACATAGACTAATCATGGATTAATTAGGCTCAATAGAT  
TTAGGTATTAATCTCTTACAAATGACATCGTAGTGTATCTGATTAGTACCTAATTAATCCGAGTTATCTA

850 860 870 880 890 900 910  
TCGTCTCGTGAATTAGTCCAAGATTATGGATGGATTTTATTAATAGTCTACGTTTAATATTTATAATTAG  
AGCAGAGCACTTAATCAGGTTCTAATACCTACCTAAAATAATTATCAGATGCAAATTATAAATATTAATC

920 930 940 950 960 970 980  
TGTTCAAACATCCGATGTGATAGGGACTTAAAAAGTTTAGTCCCATCTAAACAGGGCCACAGTCTATGTG  
ACAAGTTTGTAGGCTACACTATCCCTGAATTTTTCAAATCAGGGTAGATTTGTCCCGGTGTCAGATACAC

990 1000 1010 1020 1030 1040 1050  
GAGCATGTTACCCGAACACCGATAAATATTGCAAAGCCCAGAATGATTTTGGTCCCACATGCCAGAAACT  
CTCGTACAAGTGGCTTGTGGCTATTTATAACGTTTCGGGTCTTACTAAAACCAGGGTGTACGGTCTTTGA

1060 1070 1080 1090 1100 1110 1120  
ACCACACCCACATTTTCGGTTCATTTTCAGCTCAGGAAAATCGTCCAACAATTTAGCTCAGGAAATTA  
TGGTGTGGGTGTAAAGCCAAGTAAAGTCGAGTCCTTTTAGCAGGTTGTTAAAGTCGAGTCCTTTAATTT

1130 1140 1150 1160 1170 1180 1190  
TCGTCCGAGAAAGGAACAAGTTTGGAGCCGTTGGGATGAGAGCAATTAGGTCACGCTTAACCTACAAGTAC  
AGCAGGCTCTTTCCTTGTTCAAACCTCGGCAACCCTACTCTCGTTAATCCAGTGCGAATTGATGTTTCATG

1200 1210 1220 1230 1240 1250 1260  
AGTCTCATTCATCGACATTGATTAGCCAGCAACTAACCCTTAACCCCGAGCCAGCCCAAGCGCTCCGTA  
TCAGAGTAAGTAGCTGTAACCTAATCGGTCGTTGATTGGTGAATTGGGGCTCGGTCGGGTTTCGCGAGGCAT

1270 1280 1290 1300 1310 1320 1330  
CGTTCGTTGGGCCCCCGCCGCGCAGGCGGAGACAACGGTCATCCGGCGCGCCGGTCTGCTCTCCCTCGCTC  
GCAAGCAACCCGGGGGCGGCGCTCCGCCTCTGTTGCCAGTAGGCCGCGCGGCCAGCGAGAGGGAGCGAG

1340 1350 1360 1370 1380 1390 1400  
GCACGGCCGCACCACCCACTTCGCCACGAACCCGACGCGAGCGCGACGTGCATCTCCCAACATCCCCGCC  
CGTGCCGGCGTGGTGGGTGAAGCGGTGCTTGGGCTGCGCTCGCGCTGCACGTAGAGGGTTGTAGGGGCGG

1410 1420 1430 1440 1450 1460 1470  
ATTTCCCTCCCCACCAAAACCAACCCGCGCGTGCAGGCTGGCCCACTTTACAGCGCCTCACCTCCCCCA  
TAAAGGAGGGGTGGGTTTTGGTTGGGCGGGCGCACGCCGACCGGGTGAAATGTCGCGGAGTGGAGGGGGT

1480 1490 1500 1510 1520 1530 1540  
ACCATAAATCCCCGCCCTTTTCCCCCCTCTCCACCACTCACCACGCTCTCCACTACACGACTCGTCGCC  
TGGTATTTAGGGGCGGGAAAAGGGGGGAGAGGTGGTGAGTGGTGCGAGAGGTGATGTGCTGAGCAGCGG

1550 1560 1570 1580 1590 1600 1610  
GTCTTGCTCTGCTGCCTCTCGCGCCCGCGCAGCAGTGAGCAGCAGCAAGAGCAGTCTAGGGGGATCTACC  
CAGAACGAGACGACGGAGAGCGCGGGCGGTCGTCCTCGTCGTCGTTCTCGTCAGATCCCCCTAGATGG

FIG. 5B



```

1620      1630      1640      1650      1660
ATG AGC CCA GAA CGA CGC CCG GCC GAC ATC CGC CGT GCC ACC GAG GCG GAC ATG
TAC TCG GGT CTT GCT GCG GGC CGG CTG TAG GCG GCA CGG TGG CTC CGC CTG TAC
M   S   P   E   R   R   P   A   D   I   R   R   A   T   E   A   D   M>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1670      1680      1690      1700      1710
CCG GCG GTC TGC ACC ATC GTC AAC CAC TAC ATC GAG ACA AGC ACG GTC AAC TTC
GGC CGC CAG ACG TGG TAG CAG TTG GTG ATG TAG CTC TGT TCG TGC CAG TTG AAG
P   A   V   C   T   I   V   N   H   Y   I   E   T   S   T   V   N   F>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1720      1730      1740      1750      1760
1770
CGT ACC GAG CCG CAG GAA CCG CAG GAG TGG ACG GAC GAC CTC GTC CGT CTG CGG
GCA TGG CTC GGC GTC CTT GGC GTC CTC ACC TGC CTG CTG GAG CAG GCA GAC GCC
R   T   E   P   Q   E   P   Q   E   W   T   D   D   L   V   R   L   R>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1780      1790      1800      1810      1820
GAG CGC TAT CCC TGG CTC GTC GCC GAG GTG GAC GGC GAG GTC GCC GGC ATC GCC
CTC GCG ATA GGG ACC GAG CAG CGG CTC CAC CTG CCG CTC CAG CGG CCG TAG CGG
E   R   Y   P   W   L   V   A   E   V   D   G   E   V   A   G   I   A>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1830      1840      1850      1860      1870      1880
TAC GCG GGC CCC TGG AAG GCA CGC AAC GCC TAC GAC TGG ACG GCC GAG TCG ACC
ATG CGC CCG GGG ACC TTC CGT GCG TTG CGG ATG CTG ACC TGC CGG CTC AGC TGG
Y   A   G   P   W   K   A   R   N   A   Y   D   W   T   A   E   S   T>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1890      1900      1910      1920      1930
GTG TAC GTC TCC CCC CGC CAC CAG CGG ACG GGA CTG GGC TCC ACG CTC TAC ACC
CAC ATG CAG AGG GGG GCG GTG GTC GCC TGC CCT GAC CCG AGG TGC GAG ATG TGG
V   Y   V   S   P   R   H   Q   R   T   G   L   G   S   T   L   Y   T>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1940      1950      1960      1970      1980
CAC CTG CTG AAG TCC CTG GAG GCA CAG GGC TTC AAG AGC GTG GTC GCT GTC ATC
GTG GAC GAC TTC AGG GAC CTC CGT GTC CCG AAG TTC TCG CAC CAG CGA CAG TAG
H   L   L   K   S   L   E   A   Q   G   F   K   S   V   V   A   V   I>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

1990      2000      2010      2020      2030
2040
GGG CTG CCC AAC GAC CCG AGC GTG CGC ATG CAC GAG GCG CTC GGA TAT GCC CCC
CCC GAC GGG TTG CTG GGC TCG CAC GCG TAC GTG CTC CGC GAG CCT ATA CGG GGG
G   L   P   N   D   P   S   V   R   M   H   E   A   L   G   Y   A   P>
_a _a _a _a _a _a _a _a BAR GENE _a _a _a _a _a _a _a _a >

```

FIG. 5C

```

      2050      2060      2070      2080      2090
CGC GGC ATG CTG CGG GCG GCC GGC TTC AAG CAC GGG AAC TGG CAT GAC GTG GGT
CGC CCG TAC GAC GCC CGC CGG CCG AAG TTC GTG CCC TTG ACC GTA CTG CAC CCA
  R  G  M  L  R  A  A  G  F  K  H  G  N  W  H  D  V  G>
_ a _ a _ a _ a _ a _ a _ a _ BAR GENE _ a _ a _ a _ a _ a _ a _ a _>

      2100      2110      2120      2130      2140      2150
TTC TGG CAG CTG GAC TTC AGC CTG CCG GTA CCG CCC CGT CCG GTC CTG CCC GTC
AAG ACC GTC GAC CTG AAG TCG GAC GGC CAT GGC GGG GCA GGC CAG GAC GGG CAG
  F  W  Q  L  D  F  S  L  P  V  P  P  R  P  V  L  P  V>
_ a _ a _ a _ a _ a _ a _ a _ BAR GENE _ a _ a _ a _ a _ a _ a _ a _>

      2160      2170
ACC GAG ATC TGA TGACCCTC
TGG CTC TAG ACT ACTGGGAG
  T  E  I  *>
_ BAR GENE _>

>NOS_Terminator

      2180      2190      2200      2210      2220      2230      2240
GAGTCTAGACGCGTCCCGAATTTCCCGATCGTTCAAACATTTGGCAATAAAGTTTCTTAAGATTGAATC
CTCAGATCTGCGCAGGGCTTAAAGGGGCTAGCAAGTTTGTAACCGTTATTTCAAAGAATTCTAAGTTAG

      2250      2260      2270      2280      2290      2300      2310
CTGTTGCGGGTCTTGCGATGATTATCATATAATTTCTGTTGAATTACGTTAAGCATGTAATAATTAAACAT
GACAACGGCCAGAACGCTACTAATAGTATATTAAAGACAACCTAATGCAATTCGTACATTATTAATTGTA

      2320      2330      2340      2350      2360      2370      2380
GTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAATACGCG
CATTACGTACTGCAATAAATACTCTACCCAAAAATACTAATCTCAGGGCGTTAATATGTAAATTATGCGC

      2390      2400      2410      2420      2430      2440      2450
ATAGAAAACAAAATATAGCGCGCAAACTAGGATAAATTATCGCGCGCGGTGTCATCTATGTTACTAGATC
TATCTTTTGTGTTTATATCGCGCGGTTTGATCCTATTTAATAGCGCGCGCCACAGTAGATACAATGATCTAG

      2460      2470      2480      2490      2500      2510      2520
GGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTC
CCCTTAAGCTATAGTTTGAATAGCTATGGCAGCTGGAGCTCCCCCGGGCCATGGGTGCAAAACAAGGG

      2530      2540      2550      2560      2570      2580      2590
TTTAGTGAGGGTTAATTTGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCC
AAATCACTCCCAATTAAAGCTCGAACCGCATTAGTACCAGTATCGACAAAGGACACACTTTAACAATAGG

      2600      2610      2620      2630      2640      2650      2660
GCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCTAATGAGTGAGC
CGAGTGTTAAGGTGTGTTGTATGCTCGGCCTTCGTATTTACATTTTCGACCCACGGATTACTCACTCG

```

FIG. 5D

2670 2680 2690 2700 2710 2720 2730  
 TAACCTCACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCAGTTCGGGAAACCTGTCGTGCCAGCTGCATT  
 ATTGAGTGTAATTAACGCAACGCGAGTGACGGGCGAAAGGTCAGCCCTTTGGACAGCACGGTCGACGTAA  
  
 2740 2750 2760 2770 2780 2790 2800  
 AATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTTCCGCTTCTTCGCTCACTGA  
 TTACTTAGCCGGTTGCGCGCCCCCTCTCCGCCAACGCATAACCCGCGAGAAGGCGAAGGAGCGAGTGACT  
  
 2810 2820 2830 2840 2850 2860 2870  
 CTCGCTGCGCTCGGTTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCC  
 GAGCGACGCGAGCCAGCAAGCCGACGCGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGG  
  
 2880 2890 2900 2910 2920 2930 2940  
 ACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAA  
 TGTCTTAGTCCCTATTGCGTCCTTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATT  
  
 2950 2960 2970 2980 2990 3000 3010  
 AGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAG  
 TCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTTAGCTGCGAGTTC  
  
 3020 3030 3040 3050 3060 3070 3080  
 TCAGAGGTGGCGAAACCCGACAGGACTATAAAGATAACCAGGCGTTTTCCCCCTGGAAGCTCCCTCGTGCGC  
 AGTCTCCACCGCTTTGGGCTGTCCTGATATTTCTATGGTCCGCAAAGGGGGACCTTCGAGGGAGCACGCG  
  
 3090 3100 3110 3120 3130 3140 3150  
 TCTCCTGTTCCGACCTGCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTT  
 AGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGCACCGCGAAA  
  
 3160 3170 3180 3190 3200 3210 3220  
 CTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTTCGCTCCAAGCTGGGCTGTGTGCACGA  
 GAGTATCGAGTGCGACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTTCGACCCGACACACGTGCT  
  
 3230 3240 3250 3260 3270 3280 3290  
 ACCCCCCGTTACGCCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACAC  
 TGGGGGGCAAGTCGGGCTGGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTG  
  
 3300 3310 3320 3330 3340 3350 3360  
 GACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAG  
 CTGAATAGCGGTGACCGTCGTGCGTGACCATTTGTCCTAATCGTCTCGCTCCATACATCCGCCACGATGTC  
  
 3370 3380 3390 3400 3410 3420 3430  
 AGTTCCTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAA  
 TCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCTGTGCATAAACCATAGACGCGAGACGACTT  
  
 3440 3450 3460 3470 3480 3490 3500  
 GCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGT  
 CGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGTGGTGGCGACCATCGCCACCA

FIG. 5E

3510 3520 3530 3540 3550 3560 3570  
TTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTA  
AAAAACAAACGTTTCGTCTAATGCGCGTCTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAGAT

3580 3590 3600 3610 3620 3630 3640  
CGGGGTCTGACGCTCAGTGGAACTCAAGGATTTTGGTCATGAGATTATCAAAAAGGAT  
GCCCCAGACTGCGAGTCACCTTGCTTTGAGTGCAATCCCTAAAACAGTACTCTAATAGTTTTTCTTA

3650 3660 3670 3680 3690 3700 3710  
CTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAACTTGG  
GAAGTGGATCTAGGAAAATTTAATTTTACTTCAAATTTAGTTAGATTTCATATATACTCATTGAACC

3720 3730 3740 3750 3760 3770 3780  
TCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAG  
AGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATC

3790 3800 3810 3820 3830 3840 3850  
TTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAAT  
AACGGAAGTGGGGGAGCAGACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTCACGACGTTA

3860 3870 3880 3890 3900 3910 3920  
GATACCGGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAG  
CTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCGTTATTTGGTGGTGGCCTTCCCGGCTC

3930 3940 3950 3960 3970 3980 3990  
CGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAA  
GCGTCTTACCAGGACGTTGAAATAGGCGGAGGTAGGTGAGATAATTAACAACGGCCCTTCGATCTCATT

4000 4010 4020 4030 4040 4050 4060  
GTAGTTCCGCAAGTTAATAGTTTGGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTC  
CATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGCAGCAG

4070 4080 4090 4100 4110 4120 4130  
GTTTGGTATGGCTTCATTGAGCTCCGGTTCCTCCGATCGTTGTCAGAAAGTAAGTTGGCCGAGTGTATCACTCA  
CAAACCATACCGAAGTAAGTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGGTACAACACG

4140 4150 4160 4170 4180 4190 4200  
AAAAAAGCGGTTAGCTCCTTCGGTCCCTCCGATCGTTGTCAGAAAGTAAGTTGGCCGAGTGTATCACTCA  
TTTTTTTCGCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCAACCGGCGTCACAATAGTGAGT

4210 4220 4230 4240 4250 4260 4270  
TGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGA  
ACCAATACCGTCGTGACGTATTAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAGACACTGACCACT

4280 4290 4300 4310 4320 4330 4340  
GTAATCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGG  
CATGAGTTGGTTCAGTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCCGAGTTATGCC

FIG. 5F

4350      4360      4370      4380      4390      4400      4410  
 GATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAAC  
 CTATTATGGCGCGGTGTATCGTCTTGAAATTTTCACGAGTAGTAACCTTTTGCAAGAAGCCCCGCTTTTG  
  
 4420      4430      4440      4450      4460      4470      4480  
 TCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGC  
 AGAGTTCCTAGAATGGCGACAACCTCTAGGTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCG  
  
 4490      4500      4510      4520      4530      4540      4550  
 ATCTTTTACTTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATA  
 TAGAAAATGAAAGTGGTCGCAAAGACCCACTCGTTTTTGTCTTCCGTTTTACGGCGTTTTTCCCTTAT  
  
 4560      4570      4580      4590      4600      4610      4620  
 AGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTATCAGGGTT  
 TCCCGCTGTGCCTTTACAACCTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCCAA  
  
 4630      4640      4650      4660      4670      4680      4690  
 ATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATT  
 TAACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTTATTGTTTATCCCCAAGGCGCGTGTA  
  
 4700  
 TCCCCGAAAAGTGC  
 AGGGGCTTTTCACG

**FIG. 5G**

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